BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work:Modified Estimate For Improvements to RCC Road and Drain and Slabs at Sampigehalli surrounding in Ward No.05

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3. No. 143/ Item No. 19.1/ PWD SR 2018-19	Cum							
	For RCC Drain	LHS	1	325.20	1.20	1.40	546.34		
	For RCC Drain	RHS	1	117.70	1.20	1.40	197.74		
	SSM Drain								
	LHS		1	66.10	2.00	1.40	185.08		
	RHS		1	63.90	2.00	1.40	178.92		
	From Jakkur Main rd to Lake		1	158.70	2.00	1.30	412.62		
	For Culvert		8	5.04	2.00	1.25	100.80		
							1621.49	144.68	**234597.46**
	Quoted Rate	144.68							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications No. 222/ Item No. 27.18/	Cum							
	For RCC Drain	LHS	1	325.20	1.20	0.15	58.54		
	For RCC Drain	RHS	1	117.70	1.20	0.15	21.19		
	SSM Drain								
	LHS		1	66.10	2.00	0.15	19.83		
	RHS		1	63.90	2.00	0.14	17.25		
	From Jakkur Main rd to Lake		1	158.70	2.00	0.15	47.61		
	For Culvert		8	5.04	2.00	0.10	8.06		
							172.48	5692.45	**981828.08**
	Quoted Rate	5692.45							
3	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item	cum							
	SSM Drain								
	LHS		2	66.10	0.40	0.40	21.15		
	RHS		2	63.90	0.40	0.40	20.45		
	From Jakkur Main rd to Lake		2	158.70	0.40	0.40	50.78		
	For Culvert		16	5.04	0.40	0.40	12.90		
							105.29	5114.86	**538525.20**
	Quoted Rate	5114.86							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 25/ Item	Cum							
	SSM Drain		2	66.10	0.40	0.60	31.73		
	LHS		2	63.90	0.40	0.60	30.67		
	RHS		2	158.70	0.40	0.60	76.18		
	From Jakkur Main rd to Lake		16	5.04	0.40	0.60	19.35		
	For Culvert						**157.93**	6102.00	**963686.42**
	Quoted Rate	6102.00							
5	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.34/ PWD SR 2018-	Sqm							
	For RCC Drain	LHS	4	325.20		0.86	1123.89		
	For RCC Drain	RHS	4	117.70		0.90	423.72		
							1547.61	324.97	**502927.21**
	Quoted Rate	324.97							
6	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2/P No. 13/ Item No. 4.7/ PWD SR	cum							
	Vent concrete								
	SSM Drain		1	66.10	0.60	0.10	3.97		
	LHS		1	63.90	0.60	0.10	3.83		
	RHS		1	158.70	0.60	0.10	9.52		
	From Jakkur Main rd to Lake		8	5.04	0.60	0.10	2.42		
	For Culvert								
	Coping								
	SSM Drain		2	66.10	0.40	0.075	3.97		
	LHS		2	63.90	0.40	0.075	3.83		
	RHS		2	158.70	0.40	0.075	9.52		
	From Jakkur Main rd to Lake		16	5.04	0.40	0.075	2.42		
	For Culvert						**39.48**	5908.35	**233275.84**
	Quoted Rate	5908.35							
7	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications Page No. 115/ Item No. 15.1/	Sqm							
	SSM Drain								

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	LHS		2	66.10		0.60	79.32		
	RHS		2	63.90		0.60	76.68		
	From Jakkur Main rd to Lake		2	158.70		0.60	190.44		
	For Culvert		16	5.04		0.60	48.38		
							394.82	234.82	**92712.57**
	Quoted Rate	234.82							
8	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 14/ Item No. 4.11/ PWD SR 2018-19	Cum							
	Bottom Concrete								
	For RCC Drain	LHS	1	325.20	0.90	0.15	43.90		
	For RCC Drain	RHS	1	117.70	0.90	0.15	15.89		
	Side Walls								
	For RCC Drain	LHS	2	325.20	0.15	0.86	84.29		
	For RCC Drain	RHS	2	117.70	0.15	0.90	31.78		
	For Drain Side Filling								
	For RCC Drain	LHS	1	325.20	0.25	0.15	12.20		
	For RCC Drain	RHS	1	117.70	0.25	0.15	4.41		
							192.47	6297.87	**1212157.90**
	Quoted Rate	6297.87							
9	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 18/ Item No. 4.46.2/ PWD SR	Tonne							
	For RCC Drain 0.060Ton/Cum		0.060	175.86			10.55		
							10.55	78977.64	**833340.47**
	Quoted Rate	78977.64							
10	Precast slab 10mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED)	Sqm							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	For RCC Drain	LHS	1	325.20	0.90		292.68		
		RHS	1	117.70	0.90		105.93		
	For SSM Drains								
	LHS		1	60.00	1.20		72.00		
	RHS		1	60.40	1.20		72.48		
	From Jakkur Main rd to Lake		1	158.70	1.20		190.44		
	missing slabs		104	0.60	0.90		56.16		
							789.69	2453.62	**1937599.18**
	Quoted Rate	2453.62							
11	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406,P No. 155/ Item No. 20.18/ PWD SR	Cum							
	For Drain Side Filling								
		LHS	1	325.20	0.25	0.60	48.78		
		RHS	1	117.70	0.25	0.60	17.66		
							66.44	2101.14	**139589.24**
	Quoted Rate	2101.14							
12	5.29(b) Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 25/ Item No. 5.30/ PWD SR 2018-	Nos							
	Kerb Stone								
		LHS	1	325.20			723.00		
		RHS	1	117.70			262.00		
	For SSM Drains								
	LHS		1	66.10			147.00		
	RHS		1	62.00			138.00		
							1270.00	454.06	**576656.20**
	Quoted Rate	454.06							
13	KSRB 15-17.5: Applying priming coat over new wood surface and / or wood based surface preparing the surface after thoroughly cleaning oil, grease, dirt, and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications. Page No. 118/ Item No. 15.59 / PWD SR 2018-19	Sqm							
	Kerb Stone Painting								
	Kerb Stone								
		LHS	1	325.20		0.35	113.82		
		RHS	1	117.70		0.35	41.20		
	For SSM Drains								
	LHS		1	66.10		0.35	23.14		
	RHS		1	62.00		0.35	21.70		
							199.85	55.64	**11119.65**
	Quoted Rate	55.64							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.Page No. 119/ Item No.								
	Kerb Stone Painting								
	Kerb Stone								
		LHS	1	325.20		0.35	113.82		
		RHS	1	117.70		0.35	41.20		
	For SSM Drains								
	LHS		1	66.10		0.35	23.14		
	RHS		1	62.00		0.35	21.70		
							199.85	107.95	**21573.81**
	Quoted Rate	107.95							
15	KSRRB M100-2. Loading and Unloading of stone boulders by manual means complete as per specification MORTH-100/chapter-1 Page No. 136/ Item No. 17.1/ PWD SR 2018	Cum							
				Qty. Vide Item No. 1			**1621.49**		
							1621.49	63.43	**102851.24**
	Quoted Rate	63.43							
16	KSRRB M300- Wrought iron and mild steel welded work KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications. Page No. 150/ Item No. 19.97/ PWD SR	Qtl								
				0.45	0.45	21.00	**4.25**		
				4*4.25/100			**0.17**		
							0.17	7998.37	**1360.52**
	Quoted Rate	7998.37							
17	KSRB13-9.4 : Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure 63mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Page No. 96/ Item No.	mtr							
			1	317.00			317.00		
							317.00	414.00	**131238.00**
	Quoted Rate	414.00							
	RECHARGING GROUND WATER PITS								

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
18	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in hard soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5. **Page No. 6 / Item No. 2.4 of**	Cum							
	Main Pit		10	3.142x1.3x1.3		3.00	39.80		
							39.80	617.74	**24585.74**
	Quoted Rate	617.74							
19	KSRRB M2900-2.2. KSRRB M2900-2.1. Laying Reinforced cement concrete pipe NP4 / prestressed concrete pipe for Culvert on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia MORTH Specification No. 2900 Pag No. 254.	m							
			10	3.00			30.00		
							30.00	11290.31	**338709.30**
	Quoted Rate	11290.31							
20	KSRB 2.8 : Providing and **Filling in foundation with granite / trap broken metal** 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS **Page No. 7 / Item No. 2.15 of PWD**								
	Rain Water Racharging Pits	Cum	10	3.142x1.0x1.0		0.45	3.53		
							3.53	2703.22	**9555.21**
	Quoted Rate	2703.22							
21	0734 - Providing Aggregate 53 mm nominal size **(P.I / I. 24) PWD SR 2018-19**	Cum							
	Rain Water Racharging Pits Inside and outside the Ring		10	3.142x1.2x1.2		0.45	5.09		
							5.09	1106.90	**5628.59**
	Quoted Rate	1106.90							
22	0750 - Providing Aggregate 40 mm nominal size **(P.II / I. 25) PWD SR 2018-19**	Cum							
	Rain Water Racharging Pits		10	3.142x1.0x1.0		0.45	3.53		
							3.53	1145.89	**4050.43**
	Quoted Rate	1145.89							
23	0749 - Providing Aggregate 20 mm nominal size **(P.II / I. 28) PWD SR 2018-19**	Cum							
	Rain Water Racharging Pits		10	3.142x1.0x1.0		0.45	3.53		
							3.53	1145.89	**4050.43**
	Quoted Rate	1145.89							
24	0334 - Providing sand / Artifical Sand / Manufactured sand **(P.II / I. 49) PWD SR 2018-19**	Cum							
	Rain Water Racharging Pits		10	3.142x1.0x1.0		0.30	2.36		
							2.36	1670.84	**3937.33**
	Quoted Rate	1670.84							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
E1	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-	Sqm							
			5	5.04	1.50		37.80		
			3	5.04	1.20		18.14		
							55.94	5688.36	**318229.51**
	Data Rate	5418.00							
	TP 4.99% Above	270.36							
	Total	5688.36							
E2	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing	Cum							
	Anganavadi Surrounding		1	5.40	2.30	0.15	1.86		
			1	7.00	7.20	0.15	7.56		
	Side		1	7.70	1.40	0.15	1.62		
							11.04	5470.99	**60399.70**
	Basic Rate	4916.00							
	Area Weightage @ 6%	294.96							
	Sub Total	5210.96							
	TP 4.98% Above	260.03							
	Total	5470.99							
					Total				**9284185.23**
					Miscesallaneous Charges				**6528.78**
					Grand Total				**9290714.02**

Technical Sanction
Accorded For RS9290714.02
Head of A/C Rural
CER NO : 31 Dt: 14.10.2020

Assistant Engineer
Project Division, Yelahanka

Assistant Executive Engineer
Project Division, Yelahanka

Executive Engineer
Project Division, Yelahanka